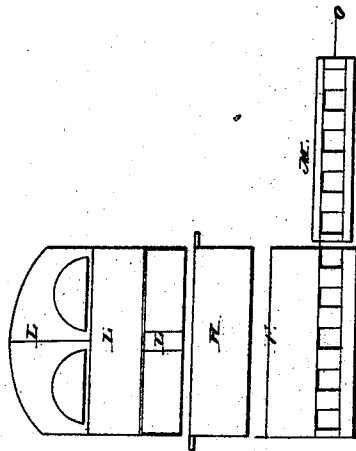
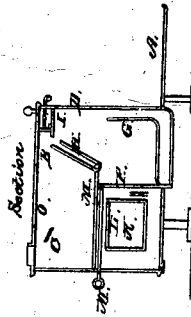
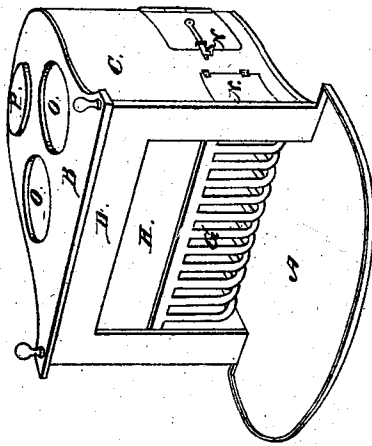
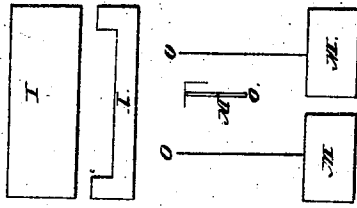


J. Harriman,

Cook Stove.

No. 33

Patented Sep. 29. 1836.



UNITED STATES PATENT OFFICE.

JOHN HARRIMAN, OF HAVERHILL, MASSACHUSETTS.

COOK-STOVE.

Specification of Letters Patent No. 33, dated September 29, 1836.

To all whom it may concern:

Be it known that I, JOHN HARRIMAN, of Haverhill, in the county of Essex and Commonwealth of Massachusetts, have invented 5 new and useful Improvements in the Manner of Constructing a Franklin Stove for Cooking and other Purposes, and that the following is a full and exact description of the construction and operation of the said 10 stove as improved by me.

This stove is to be made of cast iron, except the oven, which is to be made of sheet-iron.

It consists of the following principal 15 parts viz: 1st, the bottom plate; 2d, the top; 3d, the two insides; 4th, the front; 5th, the end plate; 6th, the back of the fire place; 7th, the grate; 8th, the cover of the grate; 9th, the plate over the fire near the top 20 plate; 10th, the oven; 11th, the plate over the oven; 12th, the dampers; 13th, the doors; 14th, the openings for the boilers, &c.

The bottom plate forms the shape of the stove. The fire place is like that of a Frank- 25 lin parlor stove. In the fire place are a grate and cover, the cover is hung on axes at each end which pass through side of the stove, the cover turns up against the back of the stove, when down it rests on the edge of 30 the grate, and incloses the fire to increase the draft, and for other purposes. The fire is visible at all times through the front of the grate when kindled. On the top, on the top-plate are two openings for boilers, 35 (and there may be more if desired) also an opening for a funnel, behind the fire place, and under the boilers is the oven which has a door at each end, and on the side near the front is another door opening into the fire 40 place for the purpose of putting in fuel.

In this stove there are five flues, and four dampers, one flue which I call the grate flue consisting of several openings near the 45 bottom of the back of the fire place. It admits of the fire, &c., from the fire place to the oven, and up by the back thereof. There is a space between the oven, and the bottom, and end plates sufficient for the fire to pass up to the plate over the oven, thence 50 crossing about half the width of the oven to the two semicircular openings in the plate over the oven, and thence to the funnel on

the top of the stove. This plate has also other openings for flues. The first mentioned grate flue has a damper which I call 55 the grate damper, which is fitted to the flue, and is moved by a rod, which passes through the side of the stove. This damper is to regulate the heat under the oven. There are two flues in the front part of the plate over 60 the oven which are over the main fire, they form a part of the fire place, and have each a damper which is moved separately by rods projecting from the back of the stove. The object of these is to take the fire from the 65 fire place and carry it up under the two boilers, (which may be of any required size) over the oven, and through the top plate, the fire and smoke escaping by this course to the funnel on the top of the stove. There are 70 also two other flues in the fire place, over the fire, and near the top plate which will receive all the fire and smoke from the fire place and from around the boilers if desired, and conduct it to the funnel on the top of the 75 stove. The two last mentioned flues have one damper which is bent so as to form two sides at right angles to each other, and so fixed as to open or close both these flues at the same time. 80

The plate over the oven contains two semicircular openings, and two flues, said plate has a partition from its under side to the oven. The above openings are on one side 85 of the partition, and the flues are on the other side, the partition separating the flues from the openings. These semicircular openings serve as outlets to bring the heat over the oven, and under the boilers. It will be seen that the fire can escape from the 90 fireplace in three ways, and all centering to the boilers.

What I claim as my invention, and wish to secure by Letters Patent is—

The plate containing the semicircular 95 openings, and two flues, and the uses to which I have applied it, also the cover of the grate, and the damper at the back of the grate, and the way in which I have applied them.

JOHN HARRIMAN.

Witnesses:

CHAS. MINOT,
EBENEZER N. BRADLEY.